

V	Final Report
	Revised Report
Re	port Date:

25-Feb-19 16:57

# Laboratory Report SC53538

Gulf Oil L.P. 281 Eastern Avenue Chelsea, MA 02150 Attn: Andrew P. Adams

Project: Gulf Terminal - Chelsea, MA

Project #: [none]

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87936 Maine # MA138 New Hampshire # 2972/2538 New Jersey # MA011 New York # 11393 Pennsylvania # 68-04426/68-02924 Rhode Island # LAO00348 USDA # P330-15-00375 Vermont # VT-11393



Authorized by:

Andrew Fenton
Quality Services Manager



Eurofins Spectrum Analytical holds primary certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 8 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

# **Sample Summary**

Work Order: SC53538

**Project:** Gulf Terminal - Chelsea, MA

**Project Number:** [none]

Laboratory IDClient Sample IDMatrixDate SampledDate ReceivedSC53538-01Outfall 003Surface Water14-Feb-19 10:5515-Feb-19 13:50

#### **CASE NARRATIVE:**

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

The samples were received 2.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of  $\pm$ 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

# **Sample Acceptance Check Form**

Project:	Gulf Terminal - Chelsea, MA / [none]			
Work Order:	SC53538			
Sample(s) received on:	2/15/2019			
The following outlines th	ne condition of samples for the attached Chain of Custody upon receipt.			
		<u>Yes</u>	<u>No</u>	N/A
Were custody se	als present?		$\checkmark$	
Were custody se	als intact?			$\checkmark$
Were samples re	ceived at a temperature of $\leq 6^{\circ}$ C?	$\checkmark$		
Were samples re	frigerated upon transfer to laboratory representative?	$\checkmark$		
Were sample con	ntainers received intact?	$\checkmark$		
	operly labeled (labels affixed to sample containers and include sample ID, site project number and the collection date)?	$\checkmark$		
Were samples ac	companied by a Chain of Custody document?	$\checkmark$		
include sample I	ustody document include proper, full, and complete documentation, which shall D, site location, and/or project number, date and time of collection, collector's name, e, sample matrix and any special remarks concerning the sample?	<b>V</b>		
Did sample cont	ainer labels agree with Chain of Custody document?	$\checkmark$		
Were samples re	ceived within method-specific holding times?		П	П

Client:

Gulf Oil L.P.

# **Summary of Hits**

Lab ID: SC53538-01 Client ID: Outfall 003

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Total Suspended Solids	11		5.0	mg/l	SM2540D-11

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification Outfall 003 SC53538-01				Project # one]		<u>Matrix</u> Surface Wa		lection Date 4-Feb-19 10			eived Feb-19	
CAS No. Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses Prepared by method SM2540D-11												
Analysis performed by Phoenix Environ	mental Labs, Inc.	* - MACT	7007									
Total Suspended Solids	11		mg/l	5.0	5.0	1	SM2540D-11	19-Feb-19	19-Feb-19	M-CT007	467411A	

09:01

09:01

25-Feb-19 16:57 Page 6 of 8

### **Subcontracted Analyses - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SM2540D-11										
Batch 467411A - SM2540D-11										
BLK (CC53222-BLK)					Pre	epared & Ar	nalyzed: 18-	-Feb-19		
Total Suspended Solids	< 5.0		mg/l	5.0	32.2		BRL	-		
DUP (CC53222-DUP)		<u> </u>	Source: CO	C53222	Pre	epared & Ar	nalyzed: 18-	-Feb-19		
Total Suspended Solids	< 5.0		mg/l	5.0	32.2			-		
LCS (CC53222-LCS)					Pre	epared & Ar	nalyzed: 18-	-Feb-19		
Total Suspended Solids	33.00		mg/l	5.0	32.2		102	85-115		

#### **Notes and Definitions**

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

<u>Laboratory Control Sample (LCS)</u>: A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

<u>Matrix Spike</u>: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

<u>Method Blank</u>: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

<u>Surrogate</u>: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

<u>Continuing Calibration Verification:</u> The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

25-Feb-19 16:57 Page 8 of 8

# eurofins

Report To:

Andrew

Adams

Gult oil LP

281 Eastern Avc.

Chelser MA. 02120

# Spectrum Analytical

Mellesten MA 02481-3705	CHAIN OF CUSTODY RECORD	
Site Name: Cult Chelsen Terminal Location: 281 Eastern Auc Chelsen State: 1		SC53538 PM

ıls:	ceipt: Custody Seals:	Condition upon receipt:	Sorrected .					20/10		-	Y
			Corecction Factor	13-50	15/16	3/	1	The state of the s		The state of the s	1
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Che Other: State-specific reporting standards:				-	-	-	Time:	Date:	Sample ID:	1	Lab ID:
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1			5		Vials er Glass		3	X3=_	X2=		X1=
Standard No QC					3		Jas	nt Air SG=Soil Gas	ndge A=Indoor/Ambient Air	oil SL=Sludge	0=0il <b>S0</b> =Soil
MA DEP MCP CAM Report? Yes No		Analysis		Containers	Co		ww=Waste Water	SW=Surface Water WW	GW=Groundwater SW=Sur		DW=Drinking Water
* additional charges may appply									CICIAL CONTRACT CANADA	m.1004	CITACITA
QA/QC Reporting Notes:	de below:	List Preservative Code below:	Li		1	6=Ascorbic Acid	5=NaOH 6=	4=HNO <sub>3</sub>	F=Field Filtered 1=Na <sub>2</sub> S2O <sub>3</sub> 2=HCl 3=H <sub>2</sub> SO <sub>4</sub> 7=CH3OH 8=NaHSO 9=Defonized Waters 10=H,PO <sub>4</sub>	1=Na <sub>2</sub> S2O <sub>3</sub>	F=Field Filtered
				Quote #:	Q1		P.O No.:		Andrew Adams	A	Project Mgr:
Sucres I missed	Hicksender	Sampler(s):			4				or	0	Telephone #:

# **Batch Summary**

#### 467411A

<u>Subcontracted Analyses</u>

CC53222-BLK CC53222-DUP

CC53222-LCS

SC53538-01 (Outfall 003)